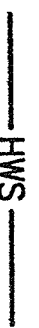







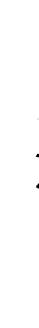

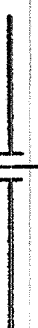










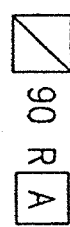
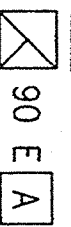
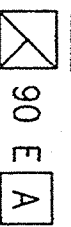








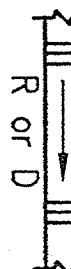


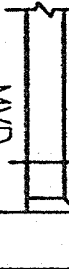
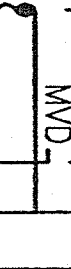










LEGEND

HVAC PIPING

	HWS	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
	D	NEW DRAIN
		DIRECTION OF FLOW
		PIPE CONNECTION FROM BELOW
		PIPE CONNECTION FROM ABOVE
		3-WAY CONTROL VALVE
		CHECK VALVE
		SHUT-OFF VALVE SEE GENERAL NOTE 7
		GLOBE VALVE
		BUTTERFLY VALVE
		BALANCING COCK
		COMBINATION FLOW MEASURING BALANCING VALVE
		PRESSURE RELIEF VALVE
		STRAINER WITH BLOW DOWN VALVE
		2 WAY MODULATING STEM CONTROL VALVE
		UNION OR FLANGED CONNECTION
		THERMOMETER IN THERMOMETER WELL
		FLEXIBLE PIPE CONNECTION
		ECCENTRIC REDUCER

DUCTWORK AND FITTINGS

	OR		90 R/A	SUPPLY DIFFUSER W/ CFM AND SIZE IDENTIFICATION
			90 E/A	4 WAY UNLESS OTHERWISE INDICATED
				RETURN REGISTER W/ CFM AND SIZE IDENTIFICATION
				EXHAUST REGISTER W/ CFM AND SIZE IDENTIFICATION
				DUCTWORK (WIDTH x HEIGHT)
				SUPPLY DUCT TURN UP
				RETURN DUCT TURN UP
				EXHAUST DUCT TURN UP
				SUPPLY DUCT TURN DOWN
				RETURN OR OUTSIDE AIR DUCT TURN DOWN
				EXHAUST OR OUTSIDE AIR DUCT TURN DOWN
				DUCT RISE OR DROP IN DIRECTION OF AIR FLOW
				90 DEG ELBOW W/ TURNING VANES
				BRANCH DUCT TAKE-OFF
				BRANCH DUCT CONNECTION W/MANUAL VOLUME DAMPER
				SPIN IN FITTING W/ MANUAL VOLUME DAMPER
				SPIN IN FITTING W/MANUAL VOLUME DAMPER & SCOOP
				FLEXIBLE DUCT CONNECTION
				PARALLEL BLADE DAMPER
				OPPOSED BLADE DAMPER
				MOTORIZED DAMPER
				AIR FLOW MEASURING STATION
				TEMPERATURE SENSOR
				ROUND DUCT
				SMOKE DETECTOR (DUCT MOUNTED)

ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT
AC	AIR CONDITIONING UNIT (D.X. TYPE)
AFF	ABOVE FINISHED FLOOR
B	BOILER
CC	COOLING COIL
CD	CEILING DIFFUSER
CO	CLEANOUT
CY.	CYCLES
Db	DECIBELS
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DX	DIRECT EXPANSION
EA.	EACH
ET	EXPANSION TANK
FLA	FULL LOAD AMPS
FLC	HEATING COIL
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
KW	KILOWATT
MD	MOTORIZED DAMPER
MA	MIXED AIR
MVD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
R	RETURN
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHT	REHEAT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RPM	REVOLUTIONS PER MINUTE
S	SUPPLY
SA	SUPPLY AIR
SP	STATIC PRESSURE
TS	TEMPERATURE SENSOR
TYP.	TYPICAL
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
WB	WET BULB TEMPERATURE
WRR	WALL RETURN REGISTER



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HVAC LEGEND AND
ABBREVIATIONS

PREFABRICATE METAL
STORAGE BUILDING

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